

WHAT IS CLAIMED IS:

1. An image forming apparatus comprising:  
an image formation unit for forming and bearing  
a toner image on a recording material;  
5 a fixing apparatus including a heat-fixing  
rotation member and a pressure rotation member with  
an elastic layer which rotate while pressed against  
each other, the heat-fixing rotation member providing  
heat for heat-fixing treatment of the toner image  
10 formed on the recording material as the recording  
material is introduced into a press-fit nip portion  
of the heat-fixing and pressure rotation members and  
held and transported between the heat-fixing and  
pressure rotation members; and  
15 temperature adjusting means for adjusting a  
temperature of the pressure rotation member by  
heating the pressure rotation member,  
wherein a condition of a temperature adjustment  
made by the temperature adjusting means can be  
20 changed at least during non-printing time.
2. An image forming apparatus according to  
Claim 1,  
wherein the temperature adjusting means can  
25 operate in plural temperature control modes that can  
be chosen in accordance with a temperature control  
mode executed by the temperature adjusting means in

at least non-printing time, and

wherein the temperature adjusting means operates in a temperature control mode selected from the plural temperature control modes.

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3. An image forming apparatus according to Claim 1, wherein the temperature adjusting means comprises:

a switching device that opens or cuts a current  
10 flow from a commercial power source to heating means;  
temperature detecting means for detecting the temperature of the pressure rotation member; and  
control means for controlling the switching device in accordance with detection information  
15 provided by the temperature detecting means.

4. An image forming apparatus according to Claim 1, further comprising second temperature adjusting means, which heats the heat-fixing rotation  
20 member to adjust a temperature of the heat-fixing rotation member.

5. An image forming apparatus according to Claim 4, wherein the second temperature adjusting  
25 means includes:

heating means for heating the heat-fixing rotation member;

adjustment means for opening or cutting a current flow from a commercial power source to the heating means;

temperature detecting means for detecting the  
5 temperature of the heat-fixing rotation member; and

control means for controlling the adjustment means in accordance with detection information provided by the temperature detecting means.

10 6. An image forming apparatus according to Claim 1, wherein the temperature control mode during a standby temperature adjustment can be selected arbitrarily.

15 7. An image forming apparatus according to Claim 1, wherein the temperature control mode during a power-saving temperature adjustment can be selected arbitrarily.

20 8. An image forming apparatus according to Claim 1, wherein the temperature control mode for when the image forming apparatus is in a sleep mode can be selected arbitrarily.

25 9. An image forming apparatus according to Claim 1, wherein whether the heating means is electrified or not during non-printing time can be

chosen by the temperature adjusting means.

10. An image forming apparatus according to  
Claim 1, wherein an adjustment temperature in non-  
5 printing time can be selected arbitrarily by the  
temperature adjusting means.

11. An image forming apparatus according to  
Claim 1, wherein intervals at which the heating means  
10 is electrified during non-printing time can be  
selected arbitrarily by the temperature adjusting  
means.

12. An image forming apparatus according to  
15 Claim 1, wherein a unit electrification time of the  
heating means during non-printing time can be  
selected arbitrarily by the temperature adjusting  
means.

20 13. An image forming apparatus according to  
Claim 1,

wherein the temperature control modes include a  
control mode in which the pressure rotor of the  
fixing apparatus is driven intermittently during non-  
25 printing time, and

wherein intervals at which the pressure rotor  
is driven can be selected arbitrarily.

14. An image forming apparatus according to  
Claim 1,

wherein the temperature control modes include a  
control mode in which the pressure rotation member of  
5 the fixing apparatus is driven intermittently during  
non-printing time, and

wherein the intermittent drive period can be  
chosen arbitrarily.

10 15. An image forming apparatus according to  
Claim 1, further comprising pressuring force  
switching means for switching a pressuring force at  
which the pressure rotor of the fixing apparatus is  
pressed against the heat-fixing rotation member,

15 wherein the pressuring force of when the image  
forming apparatus is not printing can be chosen  
arbitrarily.

16. An image forming apparatus according to  
20 Claim 1, wherein switching of the temperature  
adjustment conditions, the temperature control modes,  
the pressure rotation member drive control mode, or  
the pressuring force is effected by an interface  
command from a printer controller.

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17. An image forming apparatus according to  
Claim 1, wherein switching of the temperature

adjustment conditions, the temperature control modes, the pressure rotation member drive control mode, or the pressuring force is effected by referring to identification means of a printer controller.

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18. An image forming apparatus according to Claim 1, wherein switching of the temperature adjustment conditions, the temperature control modes, the pressure rotation member drive control mode, or  
10 the pressuring force is effected by an operation panel.

19. An image forming apparatus according to Claim 1, wherein switching of the temperature  
15 adjustment conditions, the temperature control modes, the pressure rotation member drive control mode, or the pressuring force is effected by changing a setting of printer driver software.

20 20. An image forming apparatus according to Claim 1, wherein switching of the temperature adjustment conditions, the temperature control modes, the pressure rotation member drive control mode, or the pressurizing force is effected by switching means  
25 on an electric circuit.